

TITLE

COMPOSITION AND METHOD FOR MAKING FUEL CELL
COLLECTOR PLATES WITH IMPROVED PROPERTIES

ABSTRACT

5 A method and composition is disclosed for making conductive flow
field separator plates having reduced resistivity, lower weight and lower
cost. The plates are made by blending from about 0.5 wt% to about 40
wt%, preferably from about 1 wt% to about 30 wt%, most preferably from
10 about 5 wt% to about 20 wt%, of the liquid crystal polymer; from about 0.5
wt% to about 40 wt%, preferably from about 1 wt% to about 30 wt%, most
preferably from about 5 wt% to about 20 wt% of the poly(styrene-co-maleic
anhydride); and from about 20 wt% to about 99 wt%, preferably from about
15 60 wt% to about 98 wt%, most preferably from about 70 wt% to about 90
wt% of the conductive filler. The blend is then moulded to form the
conductive flow field separator plates.

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